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(54) Title: NOVEL IMAGING AGENTS

(57) Abstract: The present invention relates to diagnostic imaging agents for *in vivo* imaging. The imaging agents comprise a synthetic caspase-3 inhibitor labelled with an imaging moiety suitable for diagnostic imaging *in vivo*. The invention also provides pharmaceutical and radiopharmaceutical compositions comprising the imaging agents, together with kits for the preparation of the radiopharmaceuticals. Also described are chelator conjugates of the caspase-3 inhibitor, which are suitable for the preparation of imaging agents comprising a radioactive or paramagnetic metal ion. The imaging agents are useful for the diagnostic imaging and/or therapy monitoring *in vivo* of various disease states where caspase-3 is involved.

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(54) Title: NOVEL IMAGING AGENTS COMPRISING CASPASE-3 INHIBITORS

(57) Abstract: The present invention relates to diagnostic imaging agents for *in vivo* imaging. The imaging agents comprise a synthetic caspase-3 inhibitor labelled with an imaging moiety suitable for diagnostic imaging *in vivo*. The invention also provides pharmaceutical and radiopharmaceutical compositions comprising the imaging agents, together with kits for the preparation of the radiopharmaceuticals. Also described are chelator conjugates of the caspase-3 inhibitor, which are suitable for the preparation of imaging agents comprising a radioactive or paramagnetic metal ion. The imaging agents are useful for the diagnostic imaging and/or therapy monitoring *in vivo* of various disease states where caspase-3 is involved.